Inventor(s): Yoichi MIZUTANI et al. Invention: Imaging Apparatus for ... Image I

Invention: Imaging Apparatus for ... Image Data Serial No.: 09/354,476



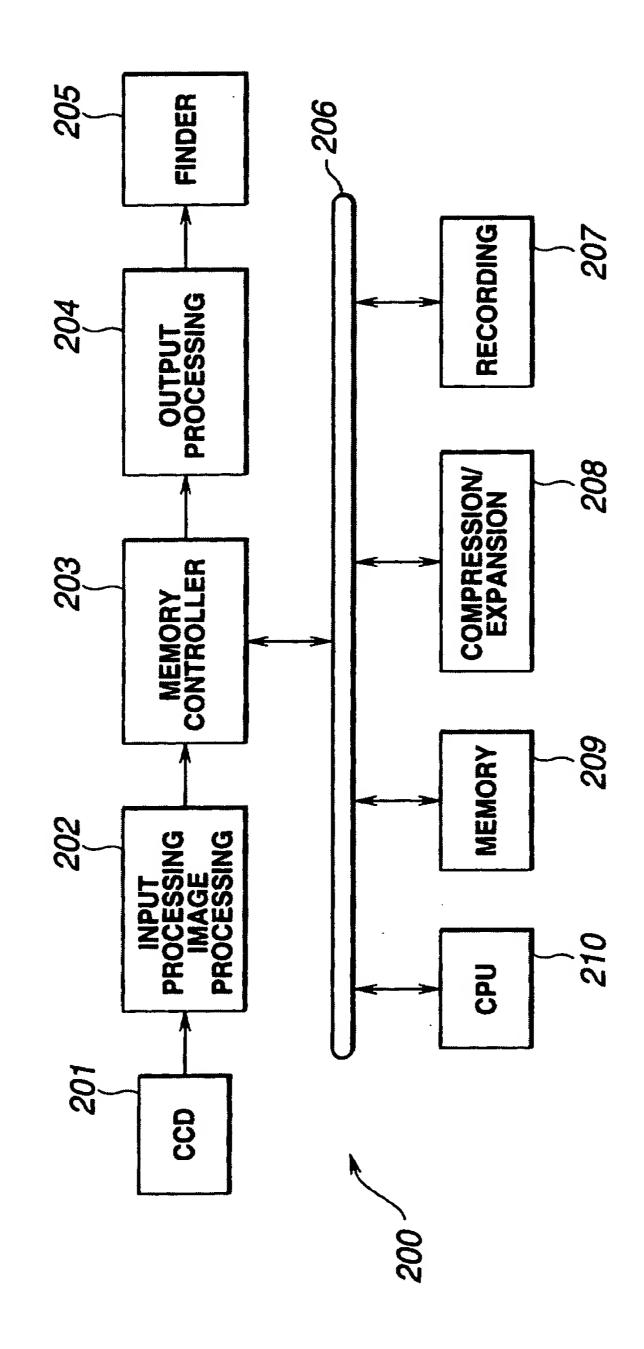


FIG.1

(PRIOR ART)

Inventor(s): Yoichi MIZUTANI et al.
Invention: Imaging Apparatus for ... Image Data
Serial No.: 09/354,476

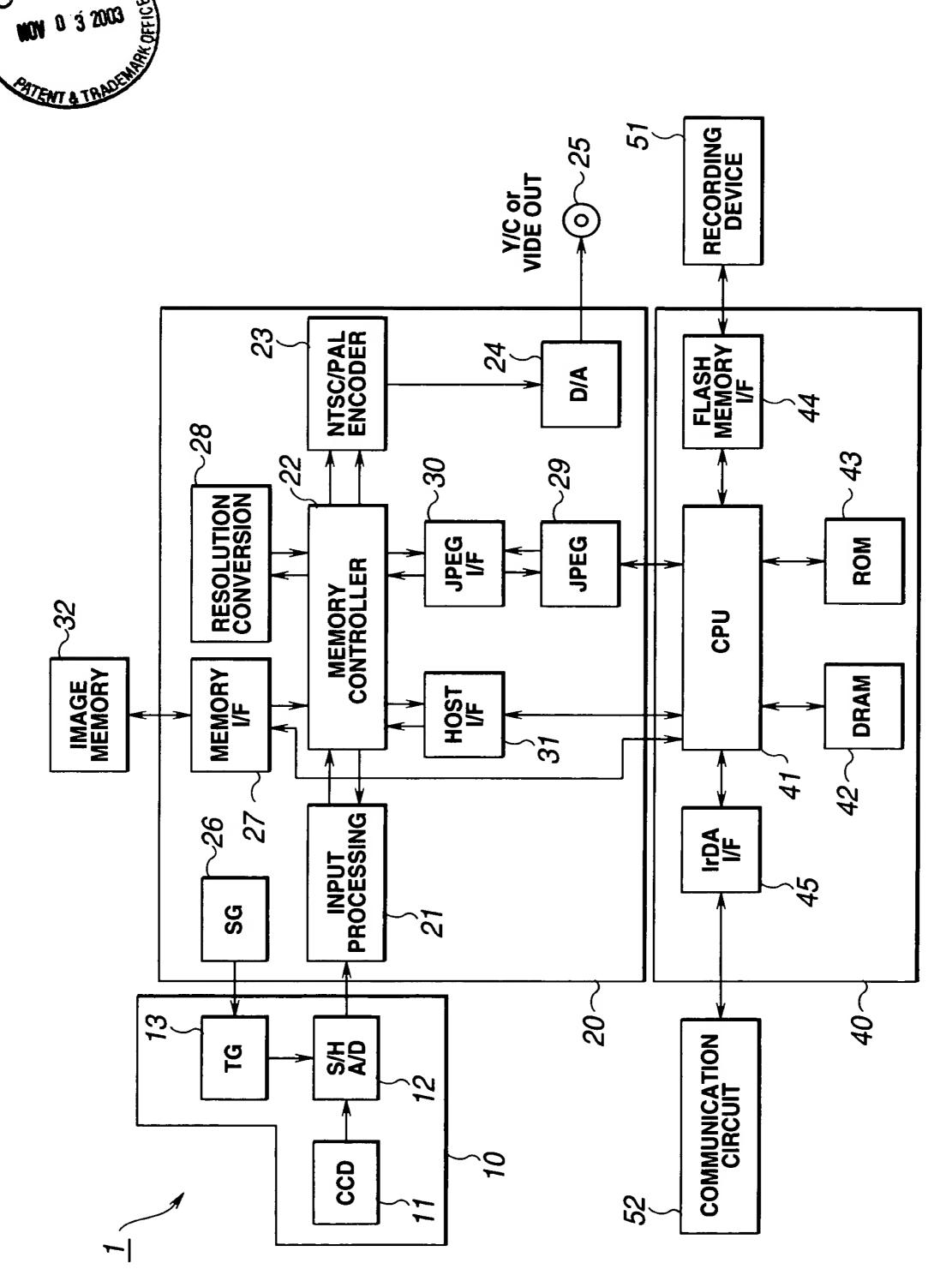


FIG.2

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Imaging Apparatus for ... Image Data 09/354,476 Serial No.:

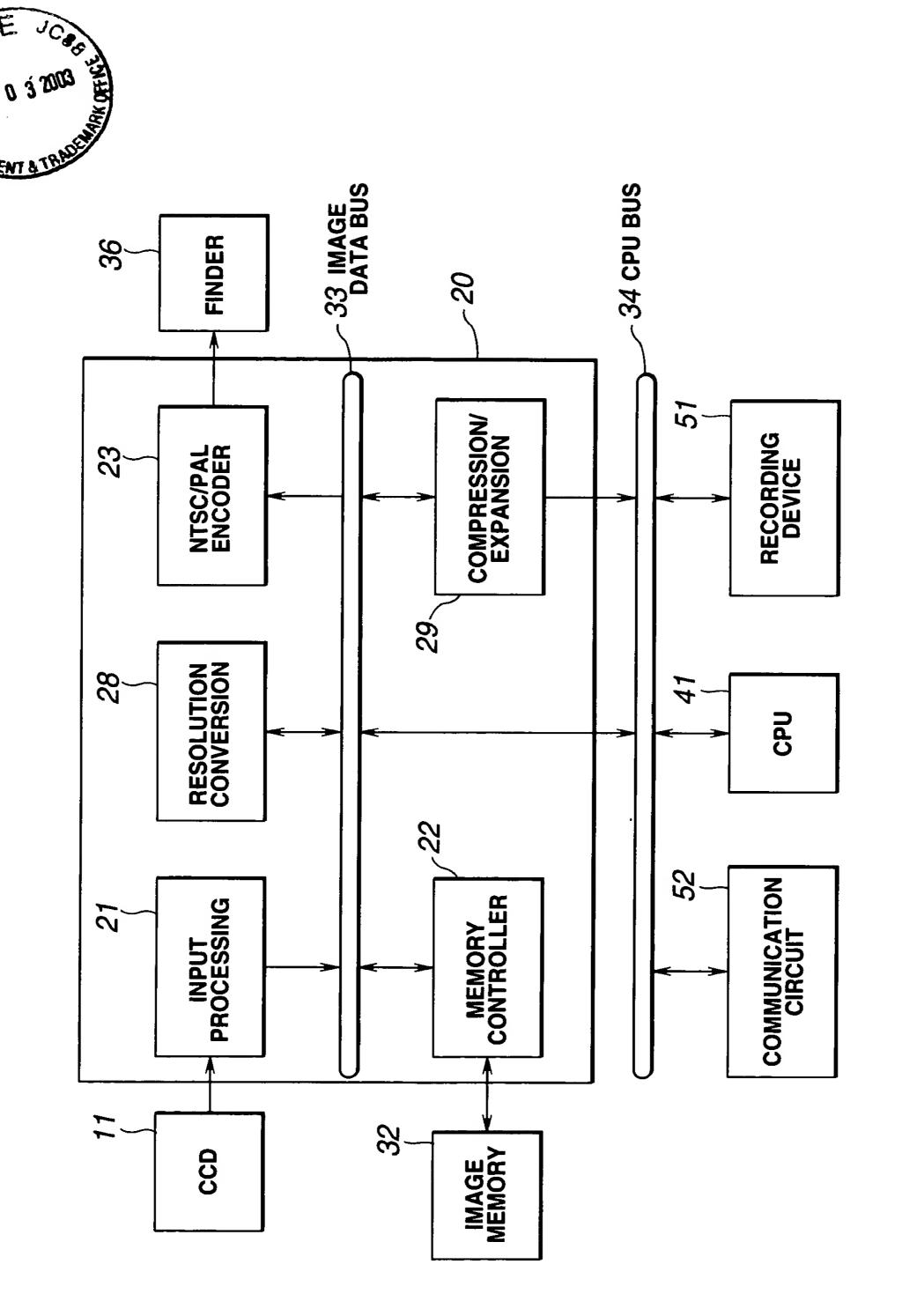


FIG.3

Inventor(s): Yoichi MIZUTANI et al. Invention: Imaging Apparatus for ... Serial No.: 09/354,476

Imaging Apparatus for ... Image Data 09/354,476



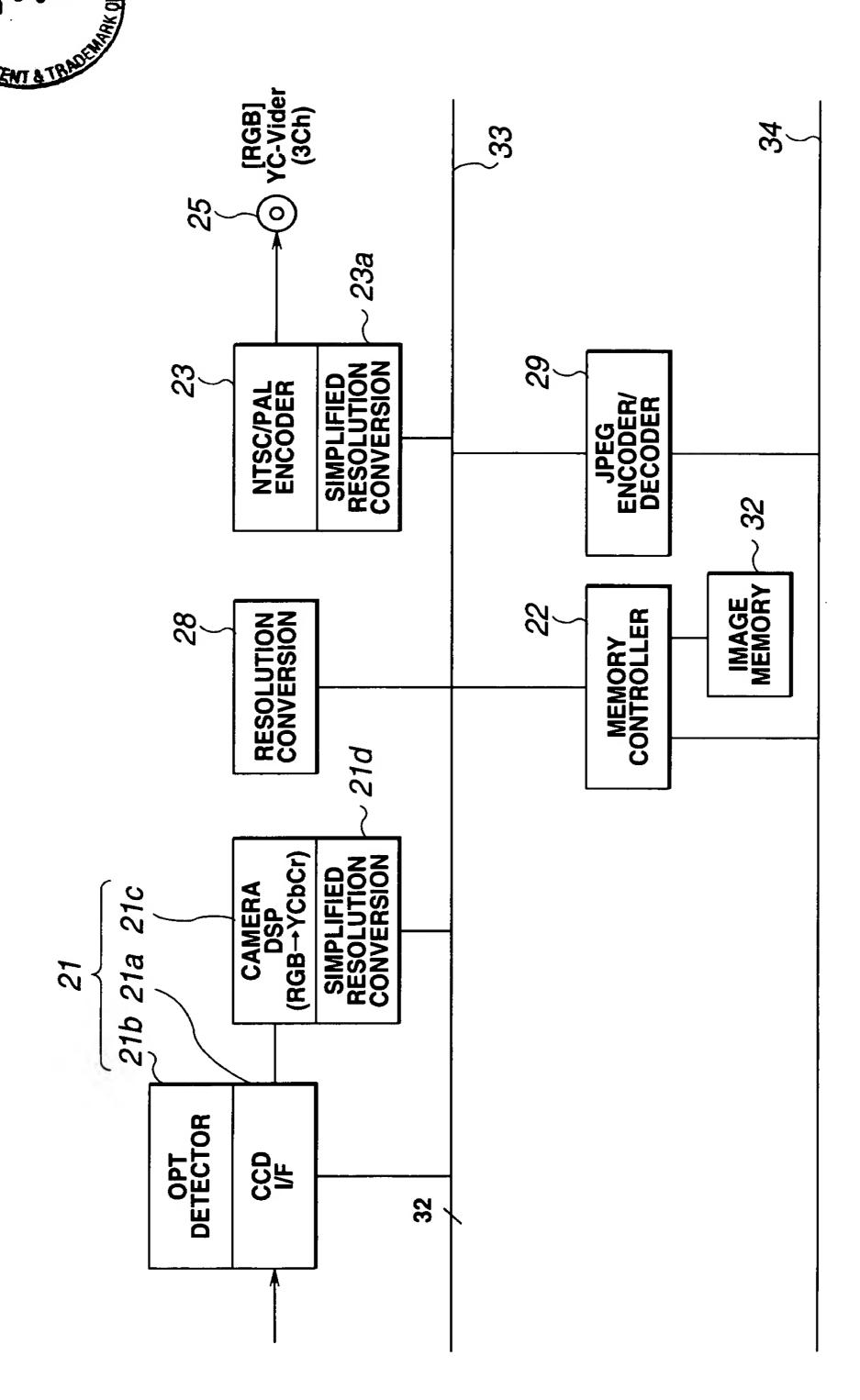
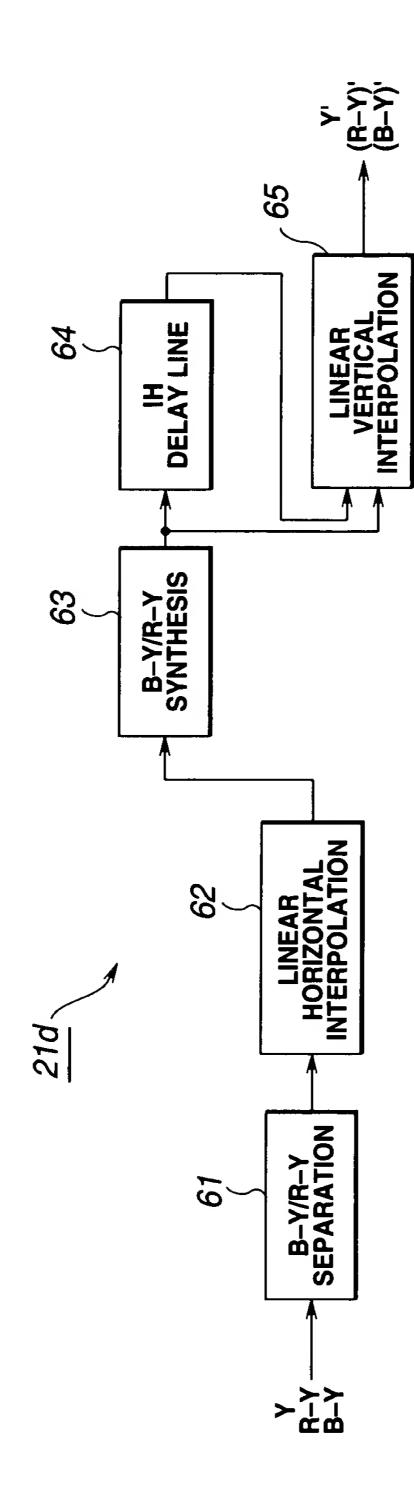


FIG.4

Imaging Apparatus for ... Image Data 09/354,476 Invention: Imaging Apparatus for ...



PATENT & TRADEN



Imaging Apparatus for ... Image Data 09/354,476 Inventor(s): Yoichi MIZUTANI et al. Invention:

Serial No.:



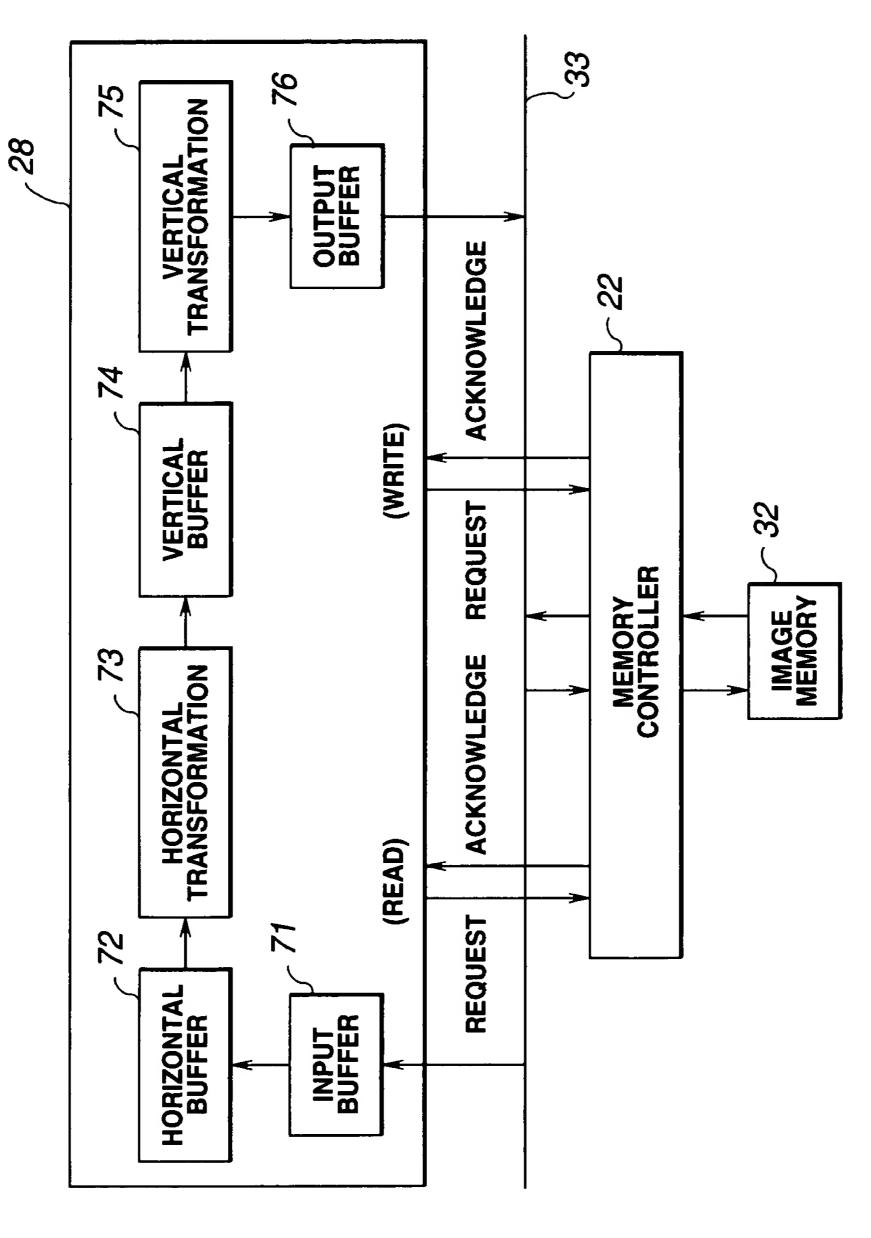
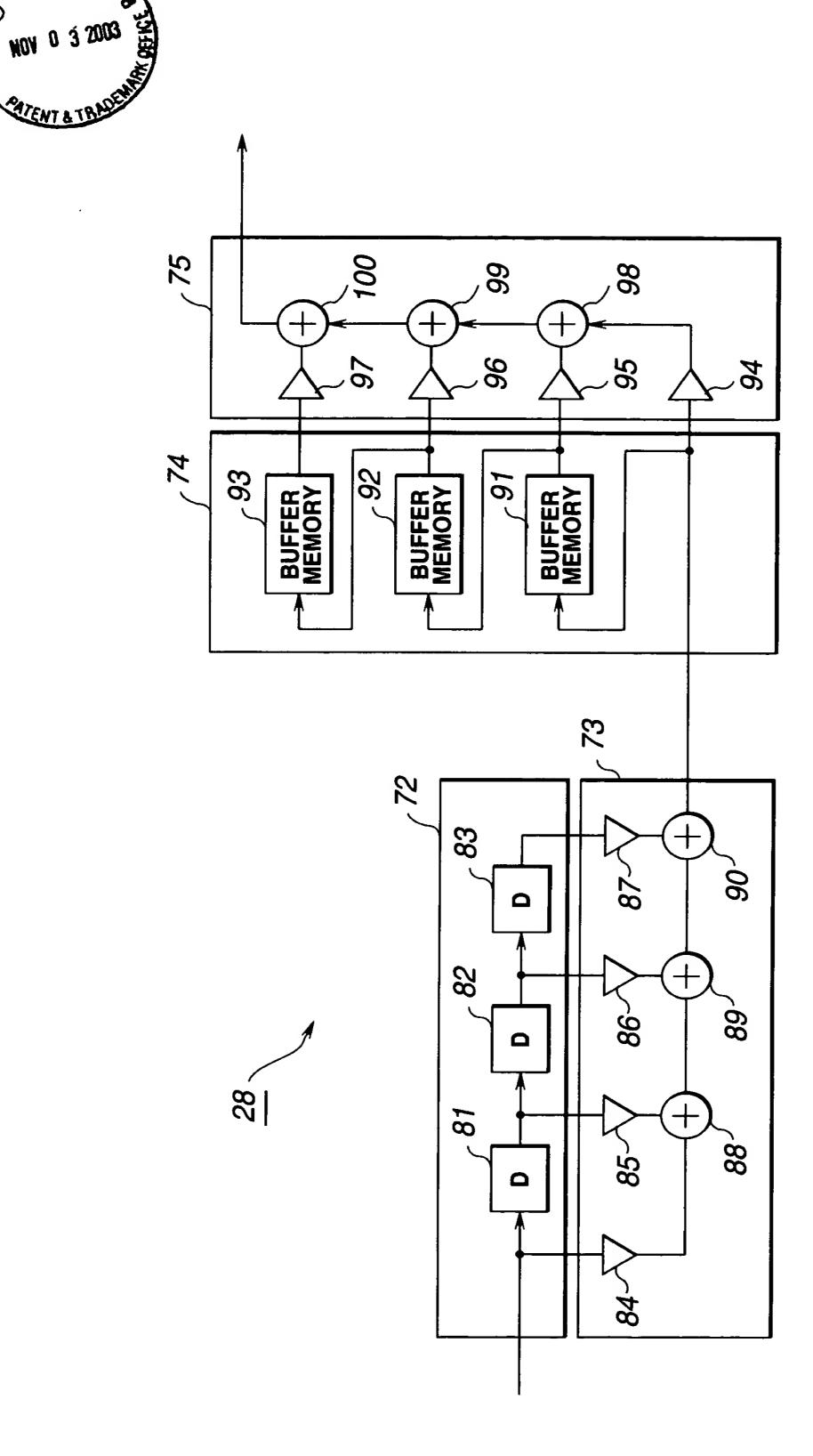


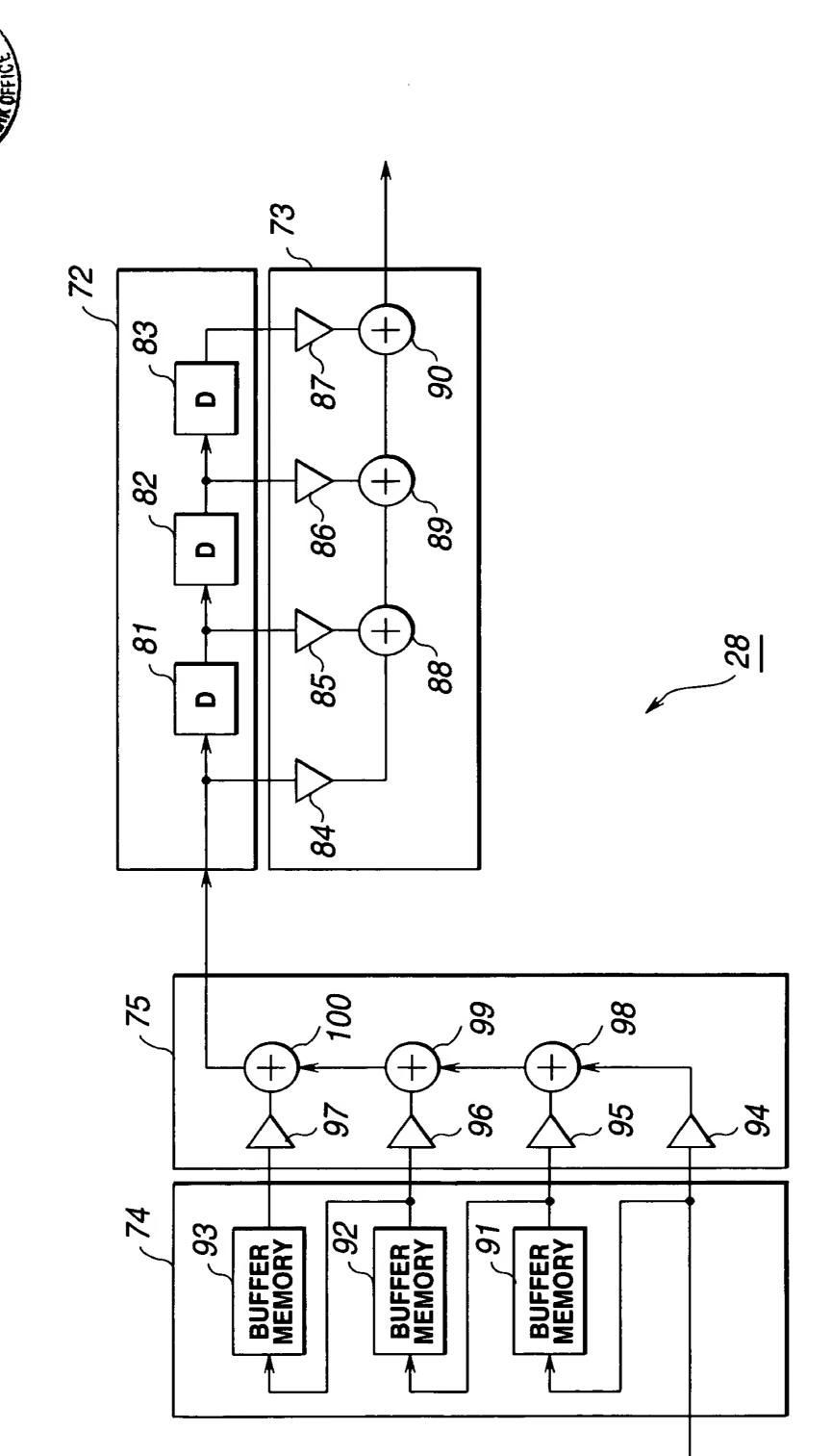
FIG.6

Imaging Apparatus for ... Image Data 09/354,476 Invention: Serial No.: PATENT & TRE



Inventor(s): Yoichi MIZUTANI et al. Invention: Imaging Apparatus for ...

Imaging Apparatus for ... Image Data 09/354,476 Serial No.:



Invention: Imaging Apparatus for ... Image Data



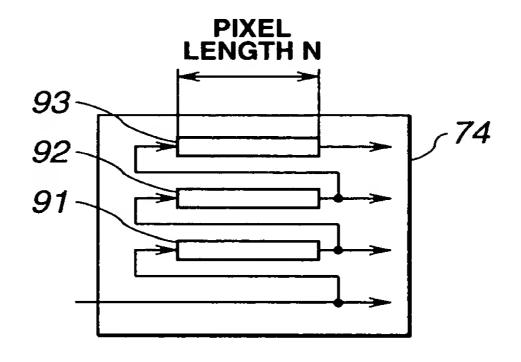


FIG.9

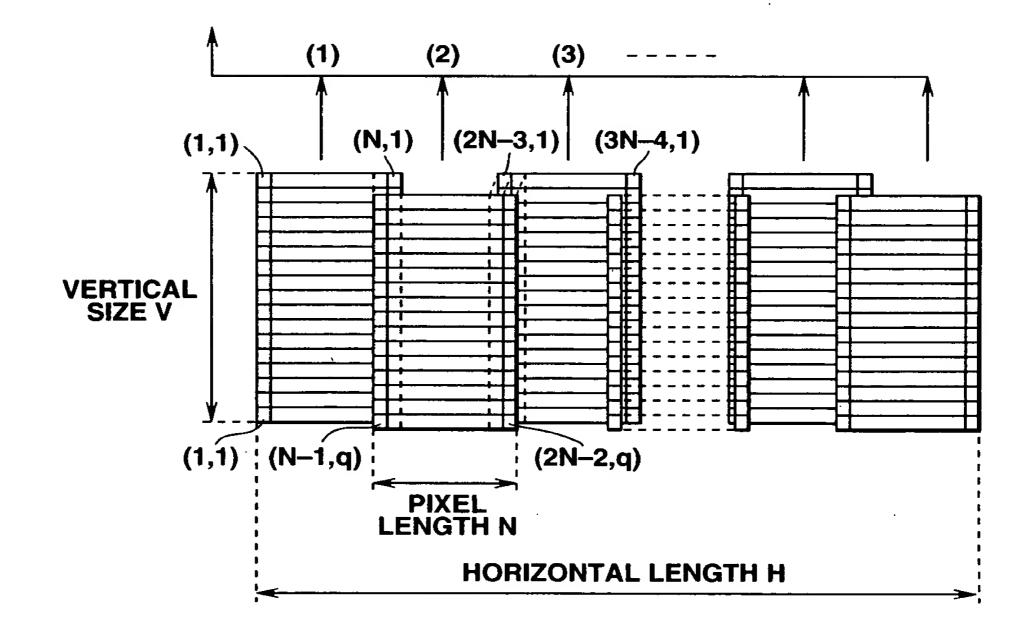


FIG.10

Invention: Imaging Apparatus for ... Image Data

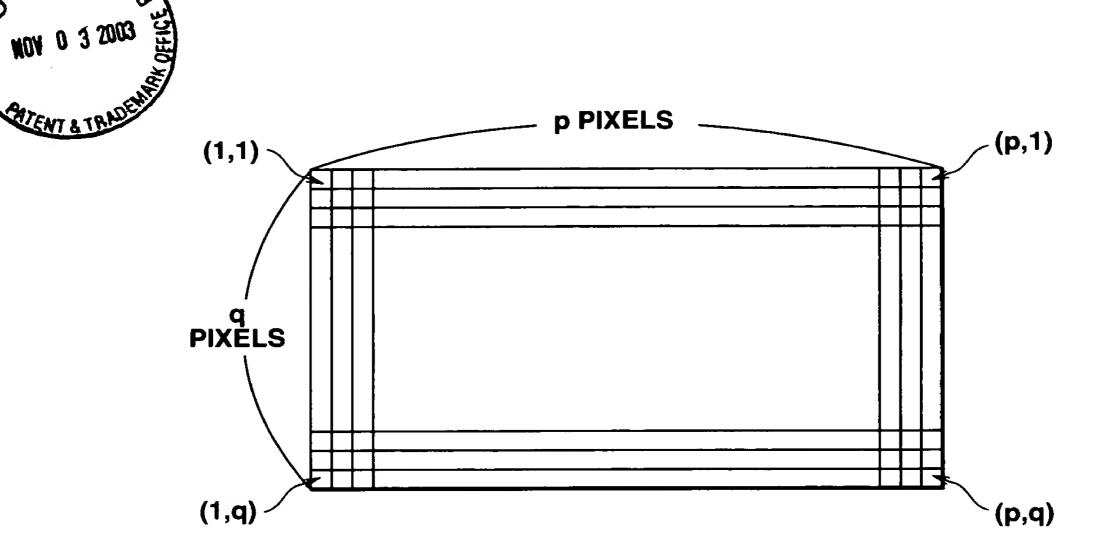


FIG.11

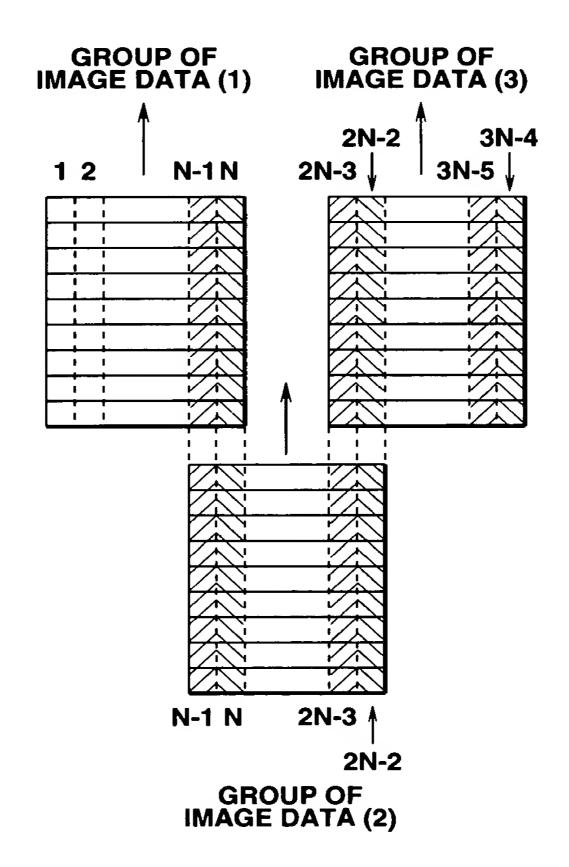


FIG.12

Invention: Imaging Apparatus for ... Image Data

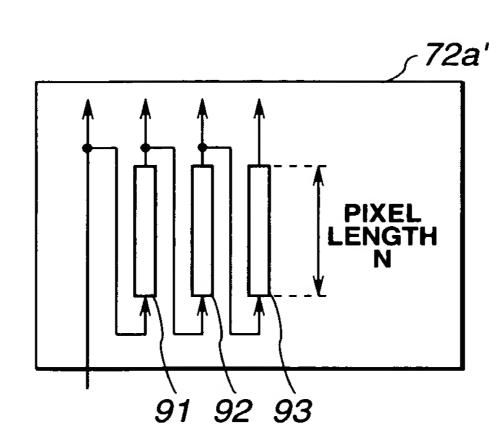


FIG.13

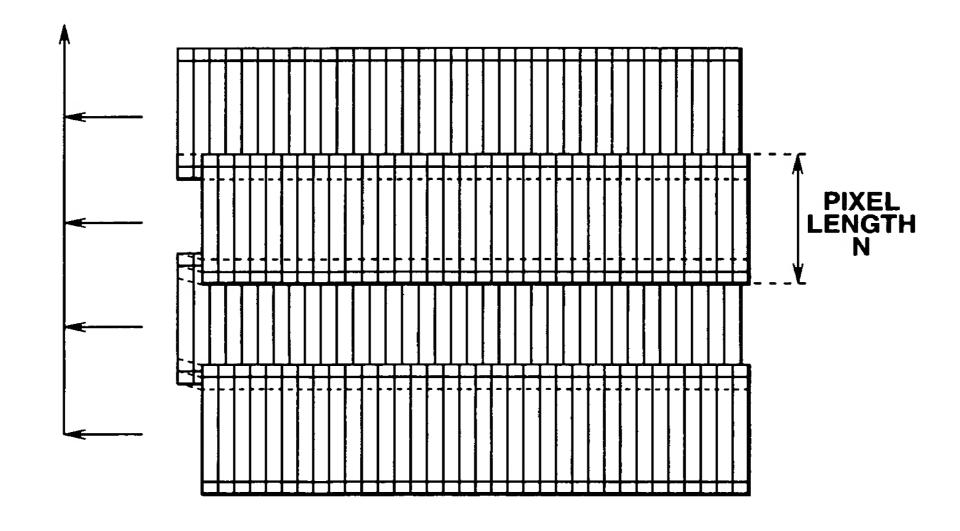


FIG.14



Invention: Imaging Apparatus for ... Image Data

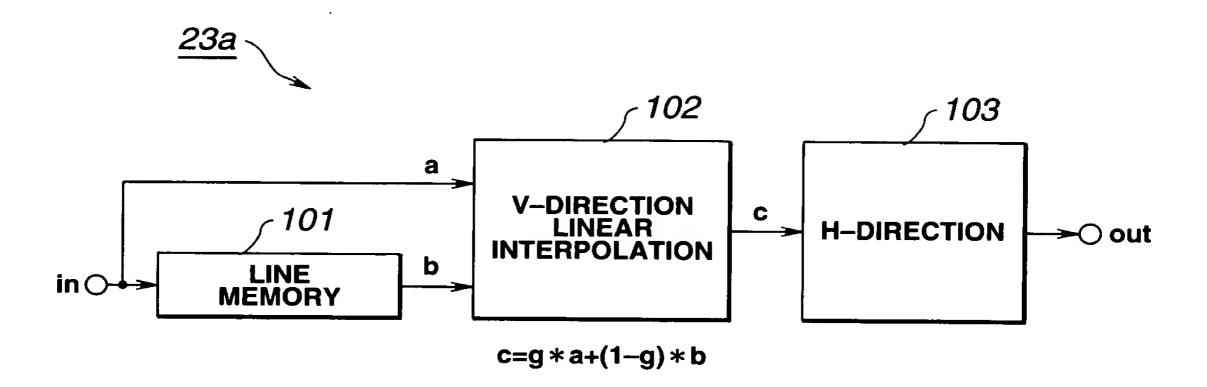


FIG.15

Imaging Apparatus for ... Image Data Inventor(s): Yoichi MIZUTANI et al.. Invention: Imaging Apparatus for ... Serial No.: 09/354,476



FIG. 16B CCD1F

1/3 THINNING

4 Ö က Cp 2 ပ <u>ვ</u> 0 င် / 9 9 \dot{c} S S 4 ပ က S N င် <u>с</u> 0 င် ~ S 9 Ö **८** > ද 4 <u>ට</u> ო|≻ <u>ვ</u> ~ |≻ ට ට ဌ FIG. 16C CAMDSP - DRAM

S

Cr Cb Q ဖ S ဌ 4 Cb Cr Cb Cr က 2 > 0 Cb Cr 9 ပ် S S 4 ပ် က Cb Cr Cb Cr Cb 2 0 9 CbCr S 4 ပ် က Cr Cb 2 cb cr cb cr cb cr cb cr cb 0 **او** رى ح 4 က **~**|≻ 0 > FIG. 16D DRAM

 $YC422(320 \times 240)$

0+0 N ↑ Q CAMDSP→ DRAM Q+0 Z ↑ O DRAM→ OSD 0+0 <u>□</u> DRAM → NTSC Z 1 Z ↑ O Q+D FIG. 16F IBUS DRAM (16bit)